

An aerial photograph of a construction site for SFA Piling. The image shows a large, dark, cylindrical pile being installed into the ground. Several workers in orange safety vests and white hard hats are positioned around the pile, some appearing to be adjusting or securing it. The ground is a mix of brown soil and dark material. In the lower right, there are metal cages or structures. The entire scene is framed by a white border.

*Aarsleff Ground Engineering*

*SFA Piling*

# Sectional Flight Auger

Sectional Flight Auger (SFA) technology is used in low head room or very restricted job sites, where a CFA rig cannot reach. The piling rigs can weigh as little as 1.5 tonnes and can install up to 450mm diameter piles in only 2.40m headroom. SFA is typically considered for use in unobstructed ground conditions including made up ground and ground with high water tables where there is restricted access or a low working height.

- ✓ SFA works within low headroom in restricted working conditions
- ✓ Causes minimal vibration therefore ideal for use next to buildings or underground services
- ✓ Ability to bore through masonry or concrete foundations
- ✓ Rapid on-site set up



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*Each SFA pile section, commencing with a toothed lead auger, is added to the rig as the augers are bored into the ground. When the required depth is reached, grout is mixed and pumped through the rotary and down the hollow stem of the augers as they are extracted and removed. The grout is cast to the platform level before a reinforcement cage is inserted.*